

# Knitted Outerwear Times

the official publication of the  
national knitted outerwear association  
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sweaters • swim suits • infantswear • knit fabrics • polo shirts • gloves • headwear

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Vol. 29

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No. 48

## Raw Cotton Use By Mills To Dip; Output Is Down

WASHINGTON, D. C. — Consumption of cotton by domestic mills in the United States in the 1960-61 marketing year is expected to be no larger than 15 million bales, according to the Agricultural Marketing Service, U. S. Department of Agriculture. This compares with about nine million bales in the preceding season and 8.7 million bales in 1958-59.

The decline in mill consumption of cotton is indicated by lower rates of mill consumption of cotton in August and September; steady rises in the stock-filled order ratio for cotton broadwoven goods at mills in recent months; decreases in the value of grey fabric; substantially larger imports of cotton textile products; and larger imports of picker or card laps, silver and roving.

The last factor is at present a minor one, but it is changing rapidly. Because of the changes in the textile export-import situation, domestic consumption of cotton is not declining as much as domestic mill consumption.

Domestic mill consumption per capita in 1960 is estimated at about 23.8 pounds, about 0.7 pound lower than consumption during 1959. Consumption per capita for 1959 was about the same as the average for the years 1955-1959, about 24.5 pounds.

During August and September 1960, the average daily rate of cotton consumption by domestic mills was lower than it was in the same months a year earlier. On a seasonally adjusted

basis, the rate for August was below that for July and the rate for September was below that for August. Both the August and September rates were below those of a year earlier.

The production of cotton in this country during the 1960-61 marketing year is estimated by the government agency at about 14.2 million running bales. This compares with the 1959 crop of about 14.5 million bales.

## New Set-Up Voted For Wool Secretariat

LONDON, England—Woolgrowers from Australia, New Zealand and South Africa, after a week's deliberation, have reached full agreement on a new administrative plan for the International Wool Secretariat. The plan includes fundamental changes in the constitution of the Secretariat, which are designed to streamline it.

Dr. J. G. van der Wath, chairman of the South African Wool Board, who presided at the meeting, said that the plan agreed upon would now be taken back to the Australian Wool Bureau and the New Zealand and South African Wool Boards for ratification. It will be published immediately after ratification. He said that the constitutional changes provided for a substantial expansion of the Secretariat's activities.

"It will enable the Secretariat to meet more vigorously the challenge of rival fibers," Dr. van der Wath said. "There is to be a big increase in the budget for 1961-62 in all fields of wool promotion, research and product development.

"All three partners expressed complete confidence in the fu-

ture of the wool industry provided it was supported by powerful promotional and research programmes designed to maintain wool in its position as the most versatile of all textile fibers.

"Most significant of all, I believe, was the atmosphere of goodwill which contributed so largely to agreement on all points."

At the meeting tributes were paid to the work done for the organisation for many years by Dr. J. H. Moolman, former chairman of the South African Wool Board, and by H. J. Wardell, who recently tired from the chairmanship of the New Zealand Wool Board.

Delegates at the meeting were W. A. Gunn and E. M. Waterman of the Australian Wool Bureau, Dr. dan der Wath and P. J. A. van Heerden of the South African Wool Board, J. Acland (Chairman) and B. S. Trolove of the New Zealand Wool Board.

## Pulled Wool Output Up; Top Production Down

Production of pulled wool in the United States during the month of September amounted to 1,921,000 clean pounds. This figure was seasonably higher than August production of 954,000 clean pounds, but was also higher than production in September of 1959 when the figure was 1,730,000 clean pounds.

Output for the first three quarters of 1960 totalled 19,382,000 clean pounds, or almost the same as the 1959 comparative total of 19,473,000 clean pounds. The final quarter of 1960 is expected to exceed 1959 so that the yearly total should also exceed 1959 production.

(Continued on Page 32)

## Non-Cellulosic Fiber Output Declines 17%

Production of non-cellulosic fiber in staple and tow form during the third quarter of the year was 17 per cent below the record second quarter, according to the Textile Economics Bureau. Output of non-cellulosic staple and tow in the third quarter amounted to 57,200,000 pounds; the second quarter total was 68,900,000 pounds.

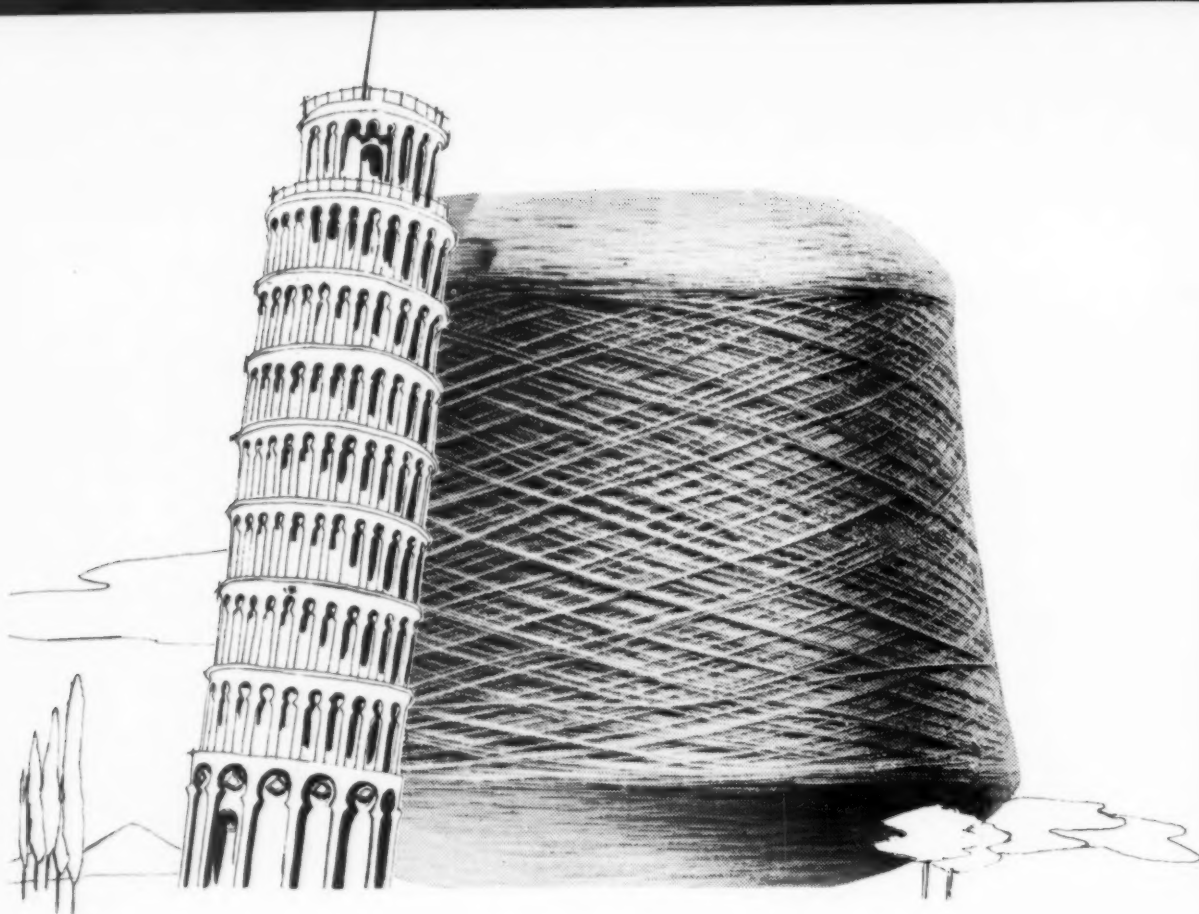
Production of non-cellulosic fiber in filament yarn form was also down in the third quarter of the year from the second quarter. Filament yarn production amounted to 109,200,000 pounds, three per cent below the peak production of 112,100,000 in the second quarter of the year.

The Textile Economics Bureau also reported that from July to September circular knitters purchased 4,300,000 pounds of rayon and acetate filament yarns compared with 4,700,000 in the second quarter of the year.

Warp knitters were shipped 9,500,000 pounds of rayon and acetate filament yarn. This was 32 per cent under shipments in the second quarter.

October shipments of acetate filament yarn totaled 16,900,000 pounds, a gain of eight per cent over the September level of 15,700,000 pounds. October rayon yarn and staple deliveries amounted to 59,100,000 pounds, an increase of 2,000,000 pounds or four per cent compared with September. Of the total deliveries of acetate yarn and rayon in October, 73,900,000 pounds were shipped to domestic consumers and 2,100,000 pounds

(Continued on Page 27)



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**Knit Yardgoods****Finishing Of Double Jersey Fabrics**

By CHARLES REICHMAN, Editor

ALTHOUGH the equipment set-up and procedure for finishing double jersey fabric is not as elaborate and complex as for the finishing of plain jersey (single needle) cloth, many yardgoods knitters fail to recognize that a successful double jersey operation depends as much on the right finishing approach as on the proper type of circular double jersey knitting machinery.

There appears to be no set procedure for finishing double jersey fabric. The equipment and techniques used by yardgoods knitters vary and are determined, apart from the type of hand desired, on the source of the manufacturer's theories on the finishing of the double jersey cloth. Fabric knitters, for example, who claim to base their finishing methods on the procedures developed on the Continent, rely solely on a single steaming or calendaring operation. Others who have recently come into the double jersey field from the weaving industry stress full dry decating, a finishing procedure virtually unknown to many knitters but standard for many types of woven fabrics. Still others feel that neither calendaring only nor full decating alone will produce the best finish in terms of cloth texture, hand, resilience and dimensional stability. These knitters favor a two-step operation—either steam framing or calendaring of the cloth followed by semi-decating.

Each yardgoods knitter will, of course, have to determine for himself by experimental runs which finishing route will give him the most desirable results. In evaluating the different methods for finishing double jersey fabric, it is important, however, that the yardgoods producer understands precisely what is meant by each of the different operations involved and what properties each procedure can impart to the fabric.

**Calendering**

Calendering is a standard knit goods finishing procedure. It is relied upon extensively by cotton yardgoods knitters and is also frequently employed by the more specialized sweater-strip knitters. A calender may best be described as a cross between a

mangle and a steaming table. The hub of the machine are its two or three heated rollers made of polished stainless steel and the steaming zone located in front of the hot rollers. The cloth passes through the steaming zone via a cloth spreader, the purpose of which is to gently spread the cloth to a predetermined width. This spread width may or may not be greater than the width of the fabric as it came off the knitting machine. In the case of double jersey materials, the desired width for cutting should be somewhat less than the immediate knitted or doffed width of the cloth.

Depending upon the degree of luster desired on the fabric, the heated rollers of the calender may or may not be covered. Some mills prefer a dull luster to the fabric. This can be achieved by covering the heated rollers with a soft cotton felt or flannel-like material. Where a glaze or sheen is to be imparted to the fabric, the heated rollers should remain uncovered.

**Object of Calendering**

The purpose of calendering is two-fold: (1) to relax fabric just off the knitting machine, relieving it of the strains imposed upon it during the knitting process—the pull exercised on the yarns in their movement from the supply cones to the knitting elements and the length- and widthwise pressure on the fabric as it is drawn off the needles and rolled up onto the take-up mechanism, and (2) to ease the knitted fabric just off the machine into the predetermined width for cutting. In both cases, the prime object is to reduce, if not inhibit, the fabric's residual shrinkage.

Double jersey yardgoods knitters have their choice of a wide variety of both foreign and domestic calendering machines. Among the domestic units available are those made by Tubular

Textile Machinery Co., Kastrinsky Machine Co., Joseph Pernick, Inc. and some eight other companies.

Probably the most widely used of the calenders for double jersey fabrics is Tubular Textile's Tube-Tex Tensionless Calender. For the finishing of double jersey fabric, this machine has been modified somewhat from the unit currently in wide use for the calendaring of plain and fancy cotton jersey (single needle) fabrics. One modification involves control of calendaring pressure by an air system. The machine also incorporates provision for automatically separating the rollers when operation of the machine is halted. This is to prevent calender roll marks on the fabric while it is stationary and under pressure from the rollers.

**Steaming**

The purpose of steaming is akin to that of calendaring with the major difference that hot pressurizing or calendaring of the fabric does not occur. Actually, a steaming machine is similar in appearance and method of functioning to a conventional knit goods calender with the exception that it does not possess the hot stainless steel rollers found on the calender. The rollers on the steaming frame are more in the nature of feed devices than hot pressure units. The steaming frame can best be compared to an open steaming table.

In steaming machines too there is wide variety in types available for use by double jersey fabric manufacturers. In some of the integrated knit dress mills use is made of another Tubular Textile product, the Tube-Tex Tensionless Framing and Steaming machine. This unit has been used for a number of years in many sweater mills for the steaming of lengths of sweater-strip material and in some swim suit plants for the finishing of tubular knitted elasticized swimwear fabrics. The machine now has been found to be adaptable as well to the new double

(Continued on Page 5)





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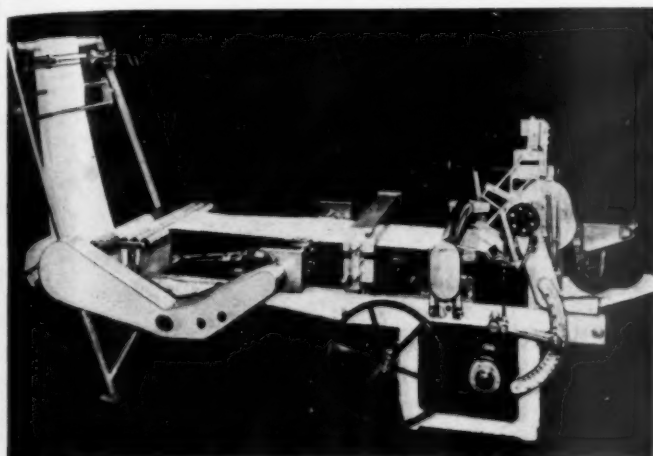
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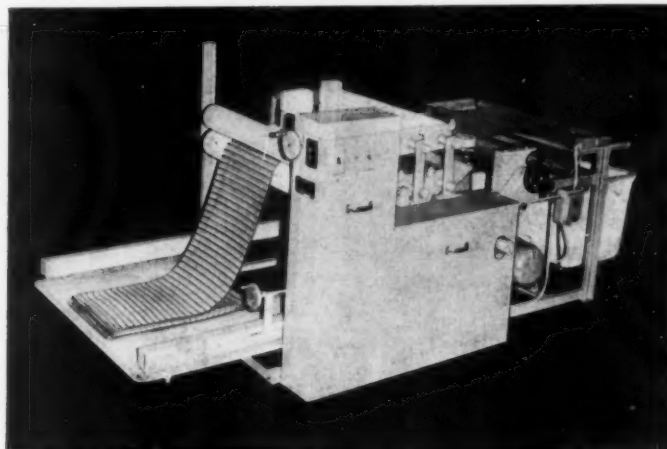
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TUBE-TEX TENSIONLESS CALENDER



TUBE-TEX STEAM FRAMER

knit fabrics. In this machine, the cloth is spread to the desired width by an adjustable spreader and conveyed by an endless belt through the steaming zone.

Comparable in appearance and method of operation to the Tube-Tex steamer and framer and apparently equally suitable for the steaming of double jersey fabrics is the Turbo sweater-strip steam framer, manufactured by the Turbo Machine Company, Lansdale, Pa.

This machine can handle tubular fabrics up to 54 inches in width. Press Rolls can be covered with a variety of materials to maintain fabric characteristics or impart new ones.

In addition to these two domestic-made steam units, knitters of double jersey yardgoods also have their choice of a number of foreign steaming machines. One that has recently come to the market is a German machine, the Model D 59 steaming and setting machine manufactured by Kurt Ehemann. Fabric on this machine is fed into the steaming area by motor driven supply rollers. Two sets of angular guide rollers, on top and underneath the cloth, direct it into the covered feed rollers at a predetermined speed. In the steaming zone, the fabric lays flat on a felt canvas cover operated on the conveyor belt principle. After steaming, the fabric is belt-conveyed to the suction zone, from which the cloth can be drawn off either in a flat fold or in a roll.

In some plants the steaming of the double jersey cloth is done on a make-shift basis by manually moving the fabric over an

open steam stable or wide press with the top buck elevated or dismantled. A spreading device can be affixed to the steam table or press. Major disadvantages of this method are: (1) the fabric is not handled on a tension-free basis as on the automatic steaming units and (2) there is no assurance that the double jersey fabric will be uniformly steamed.

As in calendering, the primary object of steaming is to relax and smoothen the fabric and endow it with a soft hand. In some mills this is the sole finishing to which double jersey fabric is subjected; it is employed as a substitute for calendering. Its advantage in this respect over calendering is that relaxation of the cloth is accomplished without the creation of the sharp folds at both sides of the tubular fabric which may have to be removed prior to slitting and laying-up of the cloth on the cutting table.

### Full Decating

There are two forms of full decating — dry and wet. The latter involves processing of the fabric in hot and cold water; the former in live steam. It is dry decating which is favored for double jersey fabric.

Full dry decating actually is a steaming and vacuuming operations much like calendering and steaming. It differs from these two processes largely in intensity. The aim of full dry decating is not only to relax, steam shrink and smoothen the fabric but also to give it at the same time a hard worsted finish.

Full dry decating machines

differ somewhat in method of functioning. Basically, however, the operation of most such machines is along the following lines: The cloth is wound over a perforated cylinder or drum with a blanket cloth between the cylinder and between each layer of the cloth. Live steam is pumped via the perforations in the cylinder through the fabric. The steam is then vacuumed by compressed air.

### Tight Wind

The fabric to be treated as well as the blanket cloth are wound around the cylinder rather tightly so that pressure is exerted on the fabric. To assure that the cloth will be uniformly processed — not just the inside layers — it may go through a second decating treatment; that is, the cloth will be wound onto a second perforated cylinder. This time, however, the method of winding will be such that the fabric formerly on the outside of the cylinder will be close to it.

In some decating machine models, the fabric is treated in much the same way but with a soft blanket cloth stitched to the two ends of the material. In winding onto the perforated cylinder, the blanket cloth will be the bottom and top layers over the cylinder with the fabric to be treated in between. The gentle pressure exerted against the fabric by the top layer of blanket cloth will serve to impart the desired hand and luster to the material.

Several mills have found that full decating double jersey fabric in this or similar fashion will product highly satisfactory

results; that is, the cloth will not only be dimensionally stable but it will also have the required firm worsted hand and luster. If full decating is to be the sole finishing step, it is, of course, necessary that the fabric be decated at the open or slit width; otherwise, cutting would be hampered by side creases.

### Semi-Decating

As its name implies, semi-decating is a milder form of full dry decating. The process is virtually similar to that described above except that the processing is done in a machine open to the atmosphere rather than in a closed unit under pressure, as in full decating.

A typical semi-decating machine is the Gessner Versamatic which comes in three sizes—36-inch, 48-inch, and 64-inch cylinder. The machine is hydraulically operated and can decate eight pieces of wool fabric per load. For processing of double jersey fabric this machine has been modified somewhat. The alteration is largely in the installation of a special feed and loading mechanism on the front of the machine to handle knitted instead of woven fabric.

Semi-decating is employed in the finishing of double jersey fabric as a complementary operation to calendering or steaming. Its purpose is chiefly to enhance the luster of the fabric and achieve the required hard, firm finish. Processing of the fabric at the open (slit) width is necessary here too if edge creases are to be avoided.

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## Knitting Techniques

## Automatic Narrowing Of Garment Parts On Dubied BARB

By J. B. LANCASHIRE  
Senior Lecturer, School of Textiles  
Leicester College of Technology

FURTHER investigational work concerned with the use of loop transfer methods in conjunction with individual needle selection on power driven V-type machines has led to the development of a new technique for the automatic narrowing of ribbed fabrics, the narrowing movements being made in such a way that they produce fashion marks identical with those that are made by the manual operation of loop transfer points.

An essential manufacturing condition is that the machine knits in half-gauge, thus obviating the necessity which would otherwise exist for disturbing the character of the ribbed texture adjacent to the selvages in order to permit loops to be transferred to empty needles. Half-gauge knitting can be done on the full range of BARB machines and is especially useful in connection with six gauge where it enables bulky knit garments to be made which would require the use of full gauge machines having only  $4\frac{1}{2}$  to 5 needles per inch. The BARB model is not offered in gauges coarser than 6 needles per inch.

Although knitting is done in half-gauge it is essential for fashioning purposes that the machine be provided with a full set of needles in both beds across the knitting widths where narrowing occurs. Both during knitting and when loops are being transferred, the tricks in the front bed lie directly in front of those in the back bed, the loop-forming needles being centered in this way.

The narrowing actions are carried out by transferring selected loops to the opposite bed, shogging the front bed while the loops are on the non-knitting needles and then returning the loops to their original beds two tricks nearer to the center of the knitting width. Since the garment pieces are symmetrical, narrowing is done at both selvages during each fashioning cycle.

The exact details of the narrowing action are influenced by whether or not arrangements can be made for the transference of loops from back bed to front bed and also from front bed to back bed in both directions of traverse movement of the cam

carriage. If the two-way transfer action can take place in both directions of movement of the carriage a complete fashioning cycle can be accomplished in two "rounds" of the carriage, which represents a loss of only eight knitted courses. However, within the limitations imposed by the camming of existing BARB machines, which permits loops to be transferred from front bed to back bed and from back bed to front bed when the carriage is travelling from right to left, but only from back bed to front bed when the carriage is travelling from left to right, the effective loss is 12 knitted courses.

A symbolic representation of the loop-transferring movements is given in the accompanying diagram where letters denote

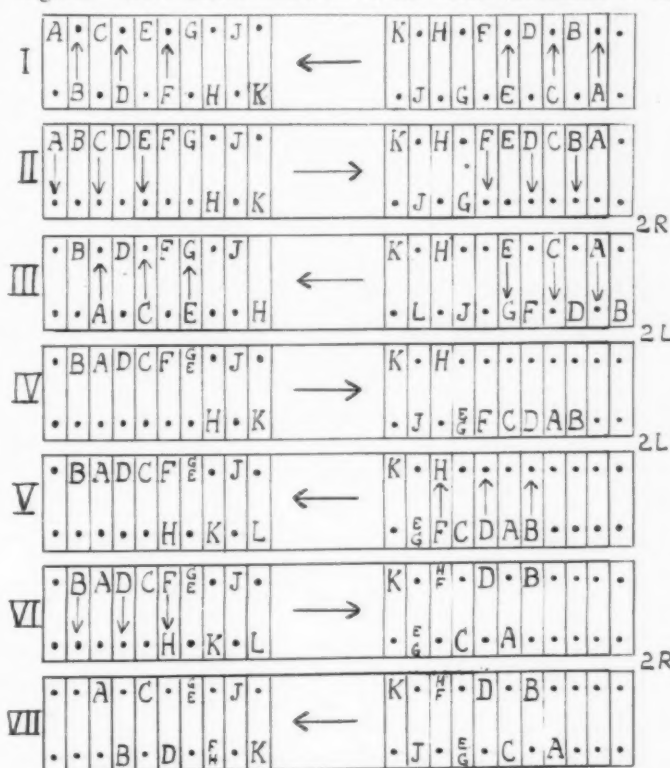
loops and dots denote empty needles. The vertical arrows show where loops are transferred and whether from front to back bed or from back to front bed; and the horizontal arrows indicate the direction of traverse movement of the cam carriage. During the fashioning cycle shogging movements of the front needlebed take place at intervals, as shown, 2R standing for a shogging movement across two needle spaces to the right and 2L for a shogging movement across two needle spaces to the left.

Under the conditions portrayed in the diagram, the fashioning cycle starts as the carriage begins to travel in the direction from right to left; and loops are transferred from the needles on the front bed on which they were formed to empty needles in the back bed, as shown by the vertical arrows within rectangle I.

The arrangement of the loops in rectangle II shows the distribution of the knitting adjacent to each selvage prior to the start of the return movement of the

carriage. During this movement loops are transferred from the needles on the back bed on which they were formed to empty needles in the front bed and on its completion the front bed is shogged across two needle spaces to the right. Rectangle III shows the distribution of loops and empty needles after the back-to-front transfer action has taken place and the front bed has been given its shogging movement. At this stage the carriage begins its third traverse movement without yarn and, since this movement is in the direction from right to left, loops can be transferred from front bed to back bed and also from back bed to front bed. The vertical arrows show previously transferred loops returned to the bed on which they were knitted, each being returned to a needle which is two tricks nearer to the center of the fabric than its original needle. The loop displacement across two needle spaces brings loops E on to needles already occupied by loops G and thus produces the double loop stitches that constitute the fashion marks. The double loop stitches GE and EG can be seen in rectangle IV which also depicts the distribution of loops and empty needles after the front needle bed has been shogged over two needle spaces to the left to bring it back to its original position. The carriage now makes an idle traverse movement in the direction left to right before another shogging movement across two needle spaces to the left is imparted to the front bed. As the carriage travels from right to left again (rectangle V) the loops B, D and F, at the right side of the knitting width, previously taken from the back bed, are returned to the back bed, each of the loops being then two tricks nearer to the center of the fabric than it was originally. Loop F combines with loop H to produce a double-loop stitch. Similarly, as the carriage moves from left to right to make its sixth and final non-knitting traverse (rectangle VI), loops B, D and F, on the left side of the

(Continued on Page 29)





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## Swimwear

## Sinclair Line Stresses Style And Color Creativity

Sinclair Original's collection of swim suits for cruise and resort 1961 comes in an imaginative array of styles. Styling ingenuity is displayed in the elasticized Orlon, cotton and wool knits, the knits of Helanca textured filament yarn and the woven cotton numbers.

New designs executed by Tom Brigrance include the culotte suit, the convertible cut-out asymmetrical cut-out tank tube, and the tunic overblouse sheath with separate panties. Special touches developed by Mr. Brigrance are straps that cross in front across the chest, off center closings and simulated apron fronts.

Colors are vivid or very soft pastel, and original designs are printed onto or woven into the fabric. The prints fall into two main categories—themes taken from nature such as flowers, butterflies and sea shells and Florentine prints with an Italian filigree flavor. In addition, there are the usual stripes, plaids and checks in rather unusual color and directional interpretations.

Jackets are very important for an outfitter look on the beach or around the pool. Most of the ensemble tops are versatile and are made to coordinate with almost any suit; consequently the most prevalent colors are black and white.

## Cropped Jackets

A rule for the length of these jackets is that they are cropped abruptly at the waist, or are long enough to completely cover the suit. Necklines are relaxed as, for example, a stand-a-way boat neck on a three-quarter sleeve, long jacket; a long length black sleeveless cutaway with attractively cut open neck and an embroidered white-on-white beach jacket with relaxed neckline; a top that will certainly dress up any suit.

Sinclair does not forget the matching jacket though, and designs them in mitred stripes and plaids that conform perfectly to the swim suits. Also in the collection are knitted beach sweaters (need these be confined to the beach?) that match the knitted suits.

## Playwear

New this year for Sinclair is playwear, often coordinated to or matching the swim suits. There are skirts, culottes and jump suits to be worn on their

own or with the swimwear.

One very big grouping of playclothes revolves about a black filigree paisley print on gold and solids of gold and black. A tunic suit is done in the print. It features a tunic tank top with scoop neck and back that is worn over separate panties. Black looped fringe one-eighth of an inch long outlines top, bottom and straps. This grouping, in addition to the suit, consists of a printed Eisenhower beach jacket ribbed at waist and cuffs in solid black, a scoop neck print top detailed with the same fringe and solid color lined shorts, and a solid gold jump suit with ribbed neck and cuffs. All pieces are knitted of cotton; the swim suit only is elasticized.

## Coordinated Prints

In another print that is used for swim suits and coordinating play clothes, white teams with black and gold in a fabric design that skillfully combines two diametrically different themes and executes them in an unusual combination of colors.

A two and one-half inch top and bottom border panel is designed in black and white zebra stripes. The next horizontal panel, three and one-half inches wide, is black with gold polka dots. Gold and black zebra stripes form the entire waist-cinching center section. This pattern can be had on a one- and two-piece maillot as well as one a one-piece skirted suit.

One coordinated piece in this theme is a gathered skirt which comfortably goes over either one-piece suit to dress the wearer in a sun dress.

## Wool Knits

A great part of the collection consists of 100 per cent elasticized wool knits, and there is enough design variety for the lover of knitted wool suits to make a choice of the style best for her.

Bright royal blue colors a heavily textured suit named the convertible cut-out because bra

and shorts are attached merely by a triangular extension of the shorts front. When worn as a one-piece, very interesting figure-flattering lines are created through the unusual cut, but the suit can be equally effective as a two-piece when the tab is neatly folded inside the trunks without a superfluous bulge.

## Contrasts Lighter Shades

Also outstanding is a flat knit sheath that features contrasting lighter shade trim horizontally across the top and waist and diagonally across bra and midriff. Four buttons follow the diagonal line across the midriff section. This suit comes in jewel shades of emerald and amethyst with piping in soft green or lilac. A flared coordinating cotton skirt with self-adjusting waist matches the lighter color piping.

A rough pebble knit of 100 per cent wool forms a two-piece suit designed with small brown squares outlined in gold. A criss-cross strap effect across the abdomen for control and design is the only detail.

There are also striped wools in textured as well as flat surfaces. Red or gold and black horizontal stripes design a flat-knit suit epitomizing the basic two-piece design of Sinclair which cuts the trunks and bra conventionally and details the bra with wide straps and scoop neck and back. Both pieces offer good coverage.

A heavily textured solid wool that comes in black, gold, purple and blue, features set-in interest on bust, and straps are about one inch wide and begin at the center of the bust section.

## Vyrene-covered Helanca

Vyrene covered with Helanca textured filament yarn forms still another group of suits.

Very elegant is a satin halter top over Helanca shorts. Two buttons on a tab to one side of the waist further accentuate the lines of this suit.

Also of Helanca and Vyrene are dramatic suits in stripes and solids that are asymmetrically cut or asymmetrically draped. There is a one strap suit which is diagonally striped on top in black and royal blue. The bottom

is a jet black maillot. Through design and cut all oriented to left, true asymmetry is created in this number.

Another Helanca and Vyrene suit is styled along these lines but comes in solid colors and has a wide diagonal cut-out center from waist to bustline. Top and bottom are fastened at one point only on the waistline.

Helanca combines with cotton in an ingenious suit that combines two looks: sleek maillot in back and relaxed apron in front. A pink, gray, black and white cotton plaid forms the front and straps while the body of the suit is black elasticized Helanca.

Many suits are executed in cotton and several designs are carried over from suits in other fabric categories. For example, the one shoulder style makes an appearance in a less sophisticated cotton suit with bloomer legs.

The culotte suit is a favorite with Sinclair and comes with a matching jacket cropped to expose at all times the culotte shorts. This style is seen in a plaid as well as an all-over embroidered solid. Elasticized side panels give control to this woven cotton suit. The culotte bottom is also available in two-piece models.

## Surf-Land New Firm. Sets Up Production Here

The newly-formed men's and boys' swimwear firm, Surf-Land Sportswear, is setting up machines for production at 520 Broadway.

Joseph Steinberg, president, said the firm has been selling mostly cut-and-sewn trunks and some knits to jobbers. The line, which ranges from \$16.50 to \$24 a dozen, includes solids, fancies and batiks, in boxer and shortie lengths. A best seller is a two-pocket shortie with beach ball trim on the pockets.

Mr. Steinberg was formerly president of Jay Lee Sportswear Co., a men's swimwear house. His son Leonard, previously assistant to the men's division merchandiser at Weldon Pajamas, Inc., is associated with him.

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## Mill News

### Munsingwear Big And Still Growing, To Celebrate Its Diamond Anniversary

MINNEAPOLIS, Minn. — Munsingwear, Inc., will mark its diamond anniversary in 1961 by looking happily to the future. In the 75 years since the company began in cramped quarters, there have been many changes in the nation's wearing apparel —and Munsingwear claims to have been responsible for many of them.

#### Silk-Plated Days

From the days of underwear silk-plated to avoid the itch of wool and of the one-piece union suit to today's knitted sport shirts and sweaters for men and boys, Munsingwear has led in fashion and has grown.

In the 1890's, sales for a 12-month period were \$86,000. Last year they were \$44,000,000.

In addition to knitted shirts and sweaters, the company manufactures men's, boys', women's and girls' sleepwear, underwear, socks, hosiery, sportswear and lingerie. Several Munsingwear

patents have been licensed for manufacture abroad.

What started in a small loft has become big business. Almost 5,000 employees in 15 plants in several states turn out about 40,000 different items. Sales offices extend from New York to Honolulu.

Much of the firm's success in recent years is due to the 1957 administrative conversion to a strict divisional operation. "It made it much easier to place responsibility," says George D. McConnell, president.

One of the most successful promotions has been the men's sports advisory board which launched Munsingwear's Grand Slam knitted golf and bowling shirts. The winners of most golf tournaments today wear the firm's penguin emblem on their shirts.

Many merchandising innovations have resulted from the

(Continued on Page 13)

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Natural and man-made fibers

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## FAREWELL TO THE BEHEMOTH

In the automobile world, the era of the behemoth is drawing to a close. The new compact cars, lighter in weight, less costly, and more comfortable are in growing demand.

Sweaters are following this same trend. Heavy, cumbersome, excessively bulky knits are losing their popularity in favor of lighter, less costly and more comfortable new styles whose appeal is in beautiful color harmonies, interesting textures and novel fibre blends.

Our 1961 collection of fine quality men's sweaters is now ready and reflects this new style tendency. It is evoking the generous praise of discriminating distributors.

Shown by appointment only.

**The Lion Knitting Mills Co.**

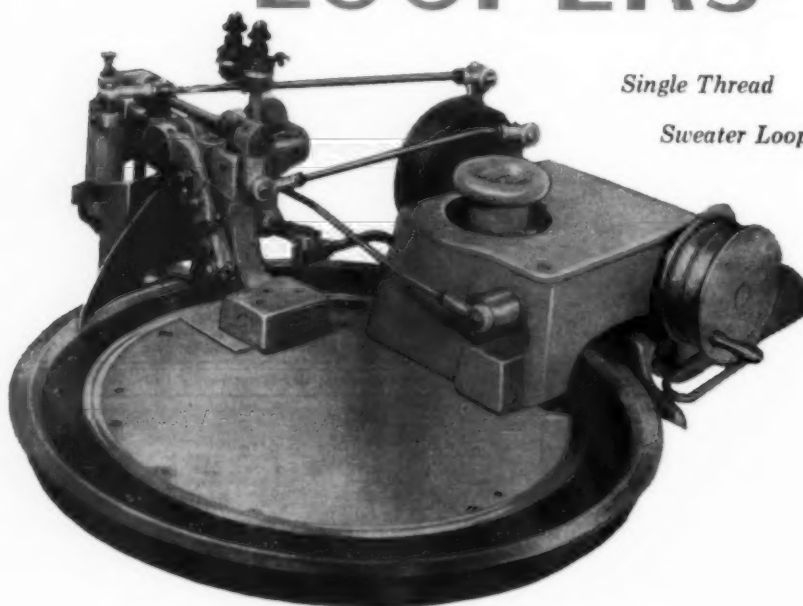
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*Sweater Loopers*

\*\*\* used solely for outerwear fabrics and all types of sweater collars, sleeves and shoulders.

Collars can be set on a completely assembled knitted garment in a single continuous operation.

A stripper is set just beyond the needle, to strip off the points.

Models LD and ST Loopers are equipped with stainless steel points.

Model LD — Large Dial — 16 $\frac{3}{16}$ " Dia.

Model ST — Conventional Dial — 14" Dia.

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firm's long and intimate relationship with retailers. It has developed and distributed point-of-sale display materials, display racks, cooperative advertising and advertising materials related to comprehensive national advertising.

Designers work closely with outerwear representatives to determine color and style trends. Knit sport shirts and sweaters are designed in studios here.

#### Research Program

Research, an important element, is in the following areas:

**KNITTING**—The main plant here has samples of every kind of circular knitting machine. The company experts set up machines and patterns in a continuing program of fabric and knit-in pattern development. They explore means of knitting to improve and stabilize existing fabrics and test new yarns, alone and in combination with others whose qualities are known, to determine the best combinations for specific uses.

**MACHINE**—Research in this area has been continuing since the days when George Munsing,

a founder of the company, first worked to perfect a machine to produce his plated fabric. Staff experts have researched, designed and built special sewing machine attachments.

**COOPERATIVE RESEARCH.** This is carried out with suppliers and other major producers in the industry, in the U.S. and abroad. Company executives attend international textile fairs and machinery exhibits to learn from others and adapt to their own needs.

**DYEING AND FINISHING** — Suppliers like DuPont provide laboratory assistance and trained personnel to research areas like fabric resistance to dyes. The company maintains an elaborate dyehouse laboratory, with such varied equipment as a fadeometer to check for colorfastness, chemical research facilities and up-to-date home laundry machinery, used to determine how fabrics and dyes will stand up under repeated laundering.

**DESIGN AND MARKET**—These programs are carried out continuously in major market areas around the country.



JACK J. JOSEPH



NICOLE LEVIN

### Renart To Produce Line Of Coordinates

Renart Sportswear Corporation has set up facilities to manufacture a complete line of ladies' coordinates and made key changes in personnel as part of the expansion.

The firm has been encouraged by results of selected area tests of a line of Wondamere sweaters and dyed-to-match skirts. Its new line will feature fur blends, angoras and mohairs and a new group of bulky knits to coordi-

nate with skirts, slacks, shorts, shirts, jackets and vests. The prices will be in the medium to better ranges.

The personnel changes are:

- Edwin Weiser, vice president and controller for the past three years, to head of sales.

- Jack J. Joseph, former vice president and controller of McKetrick-Williams, Inc., to treasurer and credit manager.

- Nicole Levin, French sportswear designer, to designer

(Continued on Page 17)



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For the ultimate in distinguished wool-spun fibers that add unquestionable quality to your fashions, call on ALDON. You'll be glad you did.



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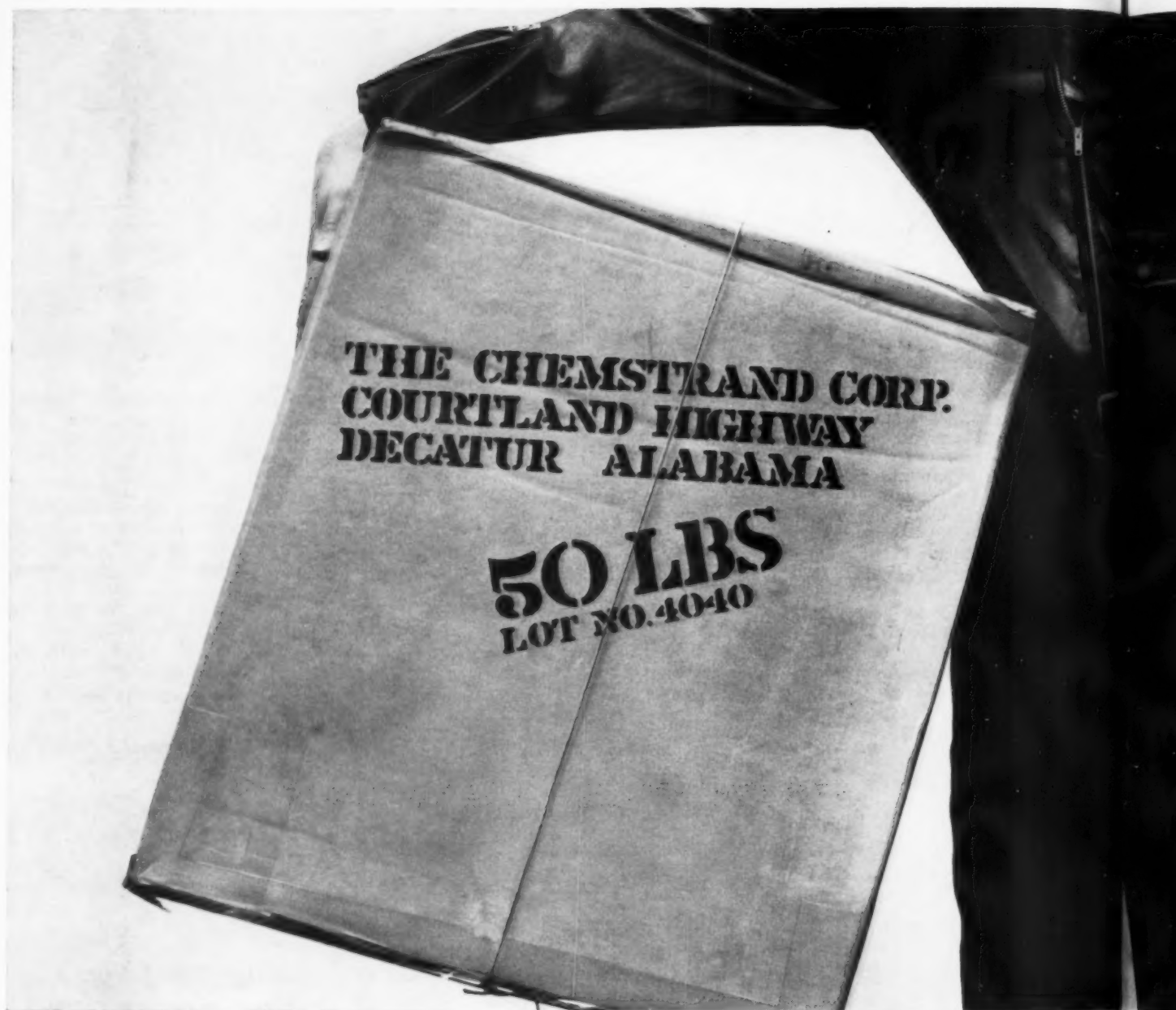
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C. J. McAlaine

One Highland Ave., Bala-Cynwyd, Pa.





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*these samples of Acrilan\* are on their way to major sweat*

Quantities like 100 lbs.

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These figures represent actual orders, already shipped. There are many more. Order after order is still pouring in, and every last one is big! Quantities that make one fact pretty plain: **Acrilan acrylic fiber.**

is one of the important sweater fibers for Fall '61.

And wait till you find out who these mills are! Of course we can't name names, but if we did, you'd recognize them.

One is the leading mill in full-fashioned, high-fashion women's sweaters.

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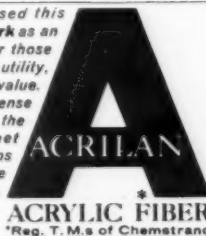
**major sweater knitting mills for their Fall '61 lines.**

store buyers look at first.)

One is the top volume knitter in girls' sweaters. All are the mills that start the trends, year after year, after year.

When you start showing your Fall lines, how will you stack up against these top mills? Think about it. And then sample Acrilan. For information call Jerry Edelman at The Chemstrand Corp. OX 5-5100.

Chemstrand has licensed this "A"-Acrilan trademark as an ingredient trademark for those fabrications that provide utility, styling and consumer value. In order to obtain a license to use this trademark, the fabrications must meet certain rigid specifications as established by The Chemstrand Corporation.



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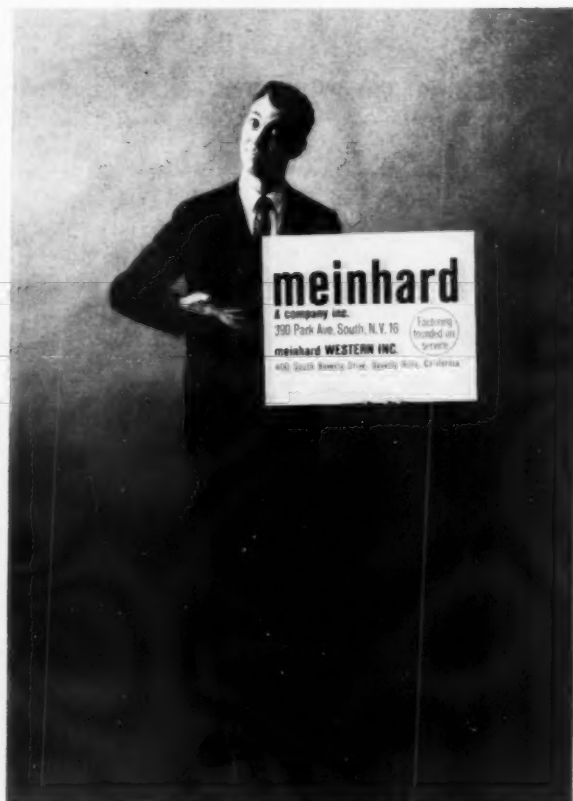
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and stylist. She is the daughter of Marie Therese, custom couturier of Paris. At 19, Mme. Levin established her own Parisian atelier.

Herbert Chestler, previously with Lampl Fashions, Inc., of Cleveland, to vice president in charge of production.

Plans are being made to establish Wondamere as the brand name for all Renart coordinates. Diamond-Barnett, Inc., has been assigned to handle advertising, promotion and public relations.

The first showings will be in late January for back-to-school buying.

### Guttman Knit Names Elsie Richards Designer

Elsie Richards, who for the past six years was a designer for R & K Originals, has recently joined the Guttman Knitwear Creations, Inc., New York City. Mrs. Richards' first collection of knits will be shown in the near future. It will be available for spring and summer selling.

### Stopol Joins Morrison To Head Recent Expansion

Morrison Knitwear Co., Inc., New York City, has added a line of woven sportswear. The firm previously manufactured sweaters and other knitted items exclusively.

Morrison's first sportswear collection will be presented for the 1961 fall season and will include skirts and pants to coordinate with their sweaters. These items will wholesale from \$5.75 to \$6.75. Blouses, jackets, vests and other tops will be added later during the season.

Heading the new department

is Phil Stopol, formerly of Pantempos, Inc., the pants division of Sportempos. He will be assisted by a staff of three designers in styling the line.

Max Jaffe, vice-president and sales manager, said Morrison Knitwear will establish a separate plant in a yet unspecified location in New Jersey to manufacture the new line. A \$2 million tentative sales goal for the first year has been set.

### Financial

### Jantzen Sales In 1960 Rose

PORTLAND, Ore. — President Paul DeKoning's report to the stockholders of Jantzen Inc., appearing in the company's annual report just issued, outlines another successful year in a long sequence of successes. The report records 1960 as the 22nd consecutive year in which the sportswear firm has achieved sales gains.

For the fiscal year ending August 31, 1960, the period covered by the report, Jantzen's net sales were \$56,505,475, representing an increase of 13.4 per cent over the preceding year.

The figures cited include Jantzen's wholly owned domestic subsidiary companies, but do not include sales by licensees and subsidiaries outside the United States.

The net earnings of \$1,857,467 for this 50th fiscal year were slightly lower than those of the year before. The difference was attributed to increased advertising costs and the initial costs of an expanded and specialized sales organization. Last year's

(Continued on Page 19)

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net earnings were \$1,888,320.

Royalty income was \$387,094, from the foreign firms which manufacture and sell under the Jantzen label. While this income is slightly below the figure for the preceding year, Mr. DeKoning said that sales by these licensees actually were about 11 percent above those of 1959, with the increase to be reflected in future accounting.

After payment of preferred dividends, the earnings represented \$2.43 per share of common stock.

Cash dividends paid during the fiscal year amounted to \$632,626 in all—with \$580,126 applied to the common stock, and \$52,500 to the 6 percent cumulative preferred.

Quarterly dividends of 20 cents were paid on the common stock plus a stock dividend of one share for every fifteen shares held. The market value of the stock dividend, when distributed to stockholders on November 1, 1959, was approximately \$1.70 per share.

Total working capital was increased by \$834,746, resulting in a total of \$12,242,138 at the end of fiscal 1960. The ratio of

current assets to current liabilities was three to one.

The total net worth of Jantzen Inc. on August 31 was \$16,264,510, with a book value of \$20.50 per share of common stock. This is based on a figure of 742,243 shares outstanding on that date.

The handsome brochure containing the report, much of it illustrated in full color, took note of "exploding suburbs," with a discussion of the trend toward branch stores and shopping centers.

"Jantzen knows the trend to suburban shopping is so strong the preparations for this added volume of business must be made now. So styling for suburban living is being emphasized. Sales representatives are being increased in number and trained in branch store operation. Inventory systems have been revised for more frequent fill-in orders and deliveries. Sales promotion plans are being created for specific use by suburban stores."

Special attention was given to the rapid recent growth in Jantzen's children's division, established in 1954. The division has

(Continued on Page 21)

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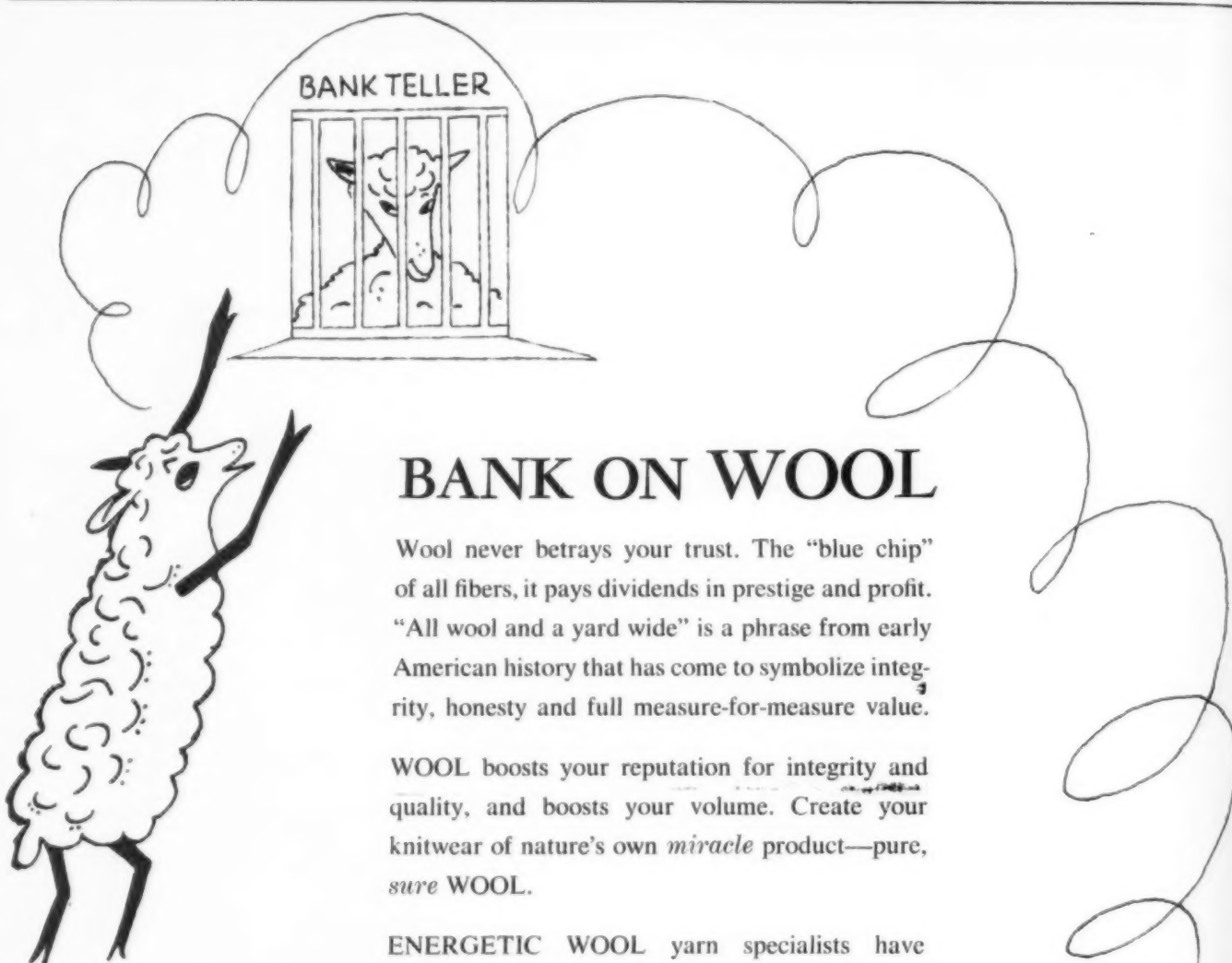
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more than doubled its sales in the past three years and is moving forward toward a steadily increasing degree of specialization.

### Talcott Votes Dividend, Votes 2-1 Stock Split

James Talcott, Inc. voted to split its common stock 2-for-1, subject to approval in the annual meeting of stockholders next April.

The split would change 2,500,000 shares of \$9 par value stock, into 5,000,000 shares of common stock, \$4.50 par value.

The directors of the company also declared a quarterly cash dividend of 45 cents per share (increased from 40 cents) on outstanding common stock, payable December 31, 1960 to stockholders of record December 15. This is the fifth increase in six years.

Herbert R. Silverman, president, said the decision to split was to broaden the market for Talcott securities.

\* \* \*

John P. Snyder has been named sales manager of Talcott Leasing Corporation, a

wholly owned subsidiary of James Talcott, Inc.

He joined the parent company early this year in the new business development department of the factoring division. He had previously been with William Iselin & Co., as new business representative in the Midwest and in New England, and member of the firm's credit department.

\* \* \*

Carl J. Grando and Kenneth E. Dougherty have been elected assistant vice presidents of James Talcott, Inc., and Andrew E. O'Donnell has been named assistant comptroller.

Mr. Grando, who has been with the firm for more than 25 years, was a member of the new business development department for the past year and before that an account executive in the commercial finance division for ten years. He became an assistant secretary of the company in 1955.

Mr. Dougherty joined the firm a little over a year ago as senior credit executive in the industrial time sales division and was elected as assistant secre-

tary of the company. He was previously with C.I.T. Industrial.

Mr. O'Donnell joined the company in 1958, after serving as comptroller of the Ansonia Wire & Cable Co., in Ashton, R. I.

### Two Shareowning Firms Get Chemstrand Dividend

The Chemstrand Corporation has declared a dividend of \$5 million to be divided between its two shareowners, American Viscose Corporation and Monsanto Chemical Company. The dividend is payable December 15.

On or about the same date, Chemstrand will pay \$5,000,000 of its two per cent subordinated notes due in 1977, which are held by the two parent companies, leaving a balance outstanding of \$19,000,000.

### Dyes And Chemicals

#### New Eastman Solution For Dyeing Bridal Wear

Eastman Chemical Products, Inc., has developed the first blue-white solution dyed acetate, Diamond-White Chromspun

332, primarily for bridal wear fabrics.

It reportedly eliminates the expensive processing normally required to achieve the luster and shade for satins, peaus and taffetas.

The company predicts its use on party dresses, swimwear, knits, foundations, blouses and lounge wear. It will be available in 100, 150 and 300 deniers.

### New Reactive Turquoise Added To Ahco Range

PROVIDENCE, R. I.—Procion Brilliant Blue H5GS has been added to the Arnold Hoffman & Co., Incorporated, range of Procion and Procion H dyes. It is a little redder in shade than the well established Procion Brilliant Blue H7GS, and is a significant advance in reactive turquoise blues, according to the company.

The new dye is said to be good in printing because of its building-up properties and freedom from staining during washing off. It is applied by the normally recommended formulas for Procion H dyes, using either conventional or emulsion thick-

(Continued on Page 23)

1882-1960  
OLD IN EXPERIENCE  
NEW IN IDEAS



QUALITY SKEIN DYEING  
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WOOL	NYLON
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Yarns*

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David F. Swain & Co.  
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Chicago 3, Ill.

J. Allison Davant, Jr.  
1811 Johnston Bldg.  
Charlotte, N. C.



enings, and is suitable for admixture with yellow Procion H dyes to make green.

The company says the new dye's high tinctorial strength, low affinity, and ease of washing off will make it highly suitable for continuous dyeing processes and for batchwise dyeing processes on cotton.

Samples of the dye and application data are available on request from the company.

### Styrene-Butadiene Latex Price Reduced By Dow

Reductions averaging two cents a pound in the price of styrene-butadiene latices have been announced by The Dow Chemical Company. The reductions apply across the board with the exception of some specialties.

The previous tank car price was 29½ cents a pound.

### Allied Chemical Develops Fast Acid Crimson Dye

Allied Chemical's national aniline division has developed an acid dye, National Fast Brilliant Crimson RB, which reportedly produces bright, clear colors from shades of pink to deep car-

mine on wool, silk, and nylon.

The company says "exceptional tinctorial strength, good light resistance and above average wet fastness" result when the dye is applied by conventional methods.

It is especially recommended for suitings, dress goods and carpet yarns.

### DuPont Names Manager Of Textile Dyes Division

WILMINGTON, Del. — Richard E. Nickerson has been appointed manager of the textile dyes section of DuPont's dyes and chemicals division, succeeding Harold L. Sager, now assistant manager of the New England district sales office.

Mr. Nickerson joined the company in 1947 as a sales trainee. Since 1949 he has been a salesman for dyes and chemicals in the Philadelphia district. He is a member of the American Association of Textile Chemists and Colorists and currently corporate membership chairman of the Delaware Valley Section.

WILMINGTON, Del.—William G. Rogers has been ap-

pointed salesman in the southern district for the dyes and chemicals division of DuPont's organic chemicals department succeeding M. S. Morrison, who has resigned.

Mr. Rogers, who has been a demonstrator in the district for the past ten years, will represent the company in the Dalton, Ga., area.

He joined the company in 1933 as a technician at the technical laboratory, Deepwater Point, N. J.

### 3 Executives Shifted By General Dyestuff Co.

General Dyestuff Company, a division of General Aniline & Film Corporation, has made executive changes. Effective this week, the following have been shifted:

- Dr. John C. Lawler to director of manufacturing with headquarters at the Rensselaer, N. Y. plant. He will be responsible for manufacturing operations there and at the vat color department of the Linden, N. J., plant. Dr. Lawler was plant manager at Rensselaer.

- Dr. Stiles M. Roberts to technical director, with headquarters at Rensselaer. He will

take charge of process research and development there and dyestuff research and development at Linden. He was manager, process research and development department, at Rensselaer.

- H. Alison Webb to director of marketing, with headquarters in New York City. He will be in charge of sales. He was sales manager.

Dr. Lawler who joined the company in 1942, was special projects coordinator in New York City, and technical coordinator in Linden.

Dr. Roberts worked for three years with The Texas Company before joining General Aniline & Film Corporation in 1942. At GAF, he was assistant director of research at the Central Research Laboratories, Easton, Pa.

Mr. Webb joined the company in 1935 as a salesman at the Charlotte, S. C., office.


### Laminates

#### Nopco Breaks Ground

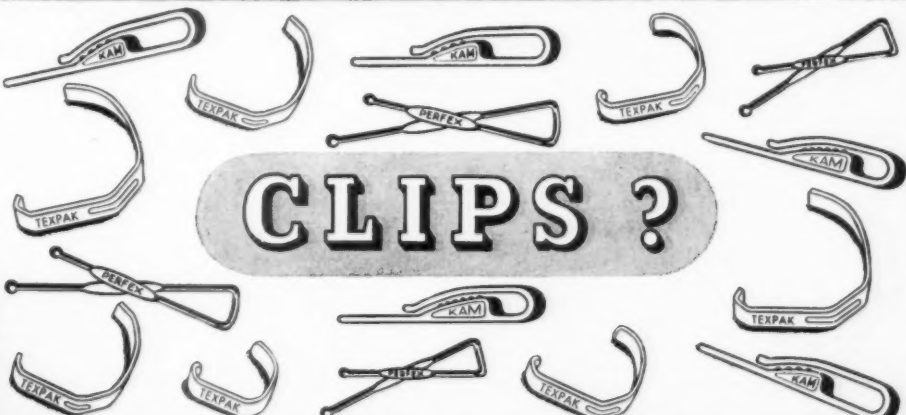
NEWARK, N. J. — Ground was recently broken in Chattanooga, Tenn., by Nopco Chemicals Co. (Continued on Page 25)



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**OUTERWEAR • UNDERWEAR**  
**SLEEPWEAR**  
 Cotton • Wool • Synthetics



**NO HOLES • NO STAINS • NO DAMAGE**



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 of METAL and PLASTIC clips in all sizes.

**PRECISION-ENGINEERED**  
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**4** profit pluses  
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Technical help from the Bancroft Company and its licensees is readily available to give you assistance and advice in carrying out your "Ban-Lon" program

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Trained marketing personnel visit stores throughout the country regularly to acquaint merchandise managers, buyers, and sales personnel with the unique advantages of "Ban-Lon" fabrics and fashions, as well as with the latest developments

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The permanent crimp in the "Textralized" yarn assures:

- soft, luxurious hand
- excellent stability
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The permanent crimp in the yarn puts the plus in Ban-Lon fabrics and garments

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cal Company for a polyether urethane foam plant, it was announced here.

The plant, expected to be in operation by March 30, will cover approximately 70,000 square feet and have an annual design capacity of 4 million pounds.

Benjamin S. Collins, general manager of Nopco's Plastics Division, said the plant will be fully equipped with quality control and research laboratories and the latest in cutting and fabricating equipment.

In another move to strengthen its position in the urethane foam industry and to broaden its position in chemicals, Nopco will construct a plant in New Jersey for the production of isocyanates. The principal product will be toluene diisocyanate (TDI), the basic raw material for Nopco's foams. The plant is expected to be in operation by January, 1962.

### Obituary

#### Walter Larkin, 88; Prizewinning Inventor

NORRISTOWN, Pa.—Walter Larkin of Norristown, inventor of the first electrically-controlled seamless hosiery machine, died November 14 after an illness of six weeks. He was 88.

He received the National Association of Manufacturers' Pioneer award for distinguished achievement in science and invention in 1940, and The Franklin Institute certificate of merit in 1942 "for ingenious application of mechanical movements to the invention of circular hosiery machinery."

In 1925, Mr. Larkin invented a machine that knits complex

designs in five colors to decorate the tops of children's socks and similar apparel. He was senior inventor at Singer-Fidelity, Inc., of Philadelphia, for the last 35 years.

His last major invention was high-speed, push-button Fidelity 400.

Mr. Larkin is survived by two sons, Dr. Walter F. Larkin of Colorado and Sylvester Larkin of Norristown, and three grandchildren.

### Hosiery

#### Chemstrand To Promote Acrilan For Knit Socks

The Chemstrand Corporation has announced plans for a major advertising, merchandising, and promotional campaign to launch Acrilan acrylic fiber in the misses' and children's socks field.

The drive will be coordinated with the activities of Morpul, Inc., licensor of a special patented knitting process used by more than 200 hosiery mills throughout the country.

The program is designed to upgrade the traditional misses' and children's socks market, raise profit and mark-up for manufacturers and retailers, and provide better merchandise.

Quality control measures of Morpul and Chemstrand for their trademark programs will be coordinated.

### Synthetics

#### Scientists Try To Get Charge Out Of Fibers

MANCHESTER, England—British research scientists are investigating the cause of generation of static electricity in synthetic fibers, Dr. D. W. Hill,

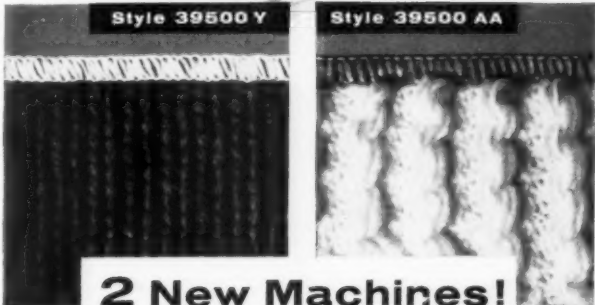
(Continued on Page 27)

## For Loosely Knit or Bulky Knit Materials



Style 39500 Y

Style 39500 AA



## 2 New Machines!

### TRIMMING - SEAMING - TAPING

SWEATERS • BULKIES • JACQUARDS  
BATHING SUITS • KNITTED DRESSES

With high popularity in knitwear these two new machines produced by Union Special will be of special interest to manufacturers of knit outerwear—lightweight to bulkies. Users get better seam appearance and quality, plus high speed, fast acceleration and smoother, straighter seams **WITH LESS OPERATOR GUIDANCE OR ASSISTANCE.**

*Style 39500 Y* is for seaming and trimming light to medium-heavy weight, loosely knitted, cotton, wool or synthetic fabrics used for sweaters, bathing suits, jackets, and other knitted outerwear. It is especially designed with ample differential feed action to handle *stretchy, loosely knit materials*. Standard width of bite is  $\frac{1}{8}$ "—stitch range 8 to 20 per inch.

*Style 39500 AA*, may be used for plain seaming and trimming or for seaming, trimming, and simultaneously applying a reinforcing tape, as in shoulder seams of sweaters. A slot in the presser foot automatically guides the tape. *Style 39500 AA* is specially built to handle *bulky knit materials*. Standard width of bite is  $\frac{5}{32}$ "—stitch range 8 to 20 per inch.

Let us give you complete information. UNION SPECIAL MACHINE COMPANY, 405 N. Franklin St., Chicago 10, Illinois.

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INDUSTRIAL SEWING MACHINES

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- Celanese
- All Types of Cotton Mesh
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# NEWS WILL BE MADE IN 1961!

*An Authoritative, Comprehensive  
Preview of Market Trends, New  
Machinery, Yarn, Processing and  
Supply Developments in the  
Knitwear Industry*

**DEC. 19th**

Here's the issue to which the entire knitwear trade eagerly looks forward . . . the issue which is an acknowledged "guide" to future planning.

Especially because events in the knit goods industry are moving at a phenomenal pace, the thirst for information is keener than ever.

Knit goods executives are avidly interested in new technical developments, new yarns and fabrics, new equipment improvements, new chemicals and dyeing and processing techniques, new mill supply aids.

This is the information which we plan to include in our forthcoming "Review and Forecast." All of the information will be new, much of it exclusive.

If you're a supplier serving the knitted outerwear industry — you'll be wise to consider the advantages of being represented in this all-important special issue, to record your future plans (and to review your past achievements and progress). There's really no more pertinent issue—for such an advertising message.

For full information, rates and advertising copy assistance — call, write or wire.

**Deadline for space reservations: December 5th, 1960**

**Deadline for copy and/or plates: December 9th, 1960**

**Knitted Outerwear Times**

386 PARK AVENUE SOUTH • NEW YORK 16, N. Y.

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director of the Cotton Industry's Shirley Institute, announced.

Static electricity, he said, caused yarns to cling to machinery or to balloon out instead of lying parallel during processing. A person wearing a garment made of synthetic fibers might find it clinging to his body or giving off electric sparks that could cause a fire or explosion in an inflammable atmosphere.

The laboratory has electrical and radioactive static eliminators but to apply them, the way the static electricity is generated must be known.

### Cotton, Rayon Research Groups Merge In Britain

MANCHESTER, England—The British Cotton Industry Research Association and the British Rayon Research Association will merge. The move will close down the headquarters of the rayon organization and concentrate all research effort at the Didsbury, Manchester, research station of BCIRA.

John Lindley, president of the cotton research association, said, "The unified research efforts will make a timely and essential contribution to the reorganization

of the trade now taking place, and insure co-operative research at a time when, more than ever before, the future is inextricably bound up with the successful application of science and technology."

The annual expenditure of the new research organization is likely to be about \$1.4 million. The money will come mainly from a statutory levy by the Cotton Board. Initially this is not likely to exceed \$600,000 a year. In addition there will be annual grants of about \$200,000 from the producers of man-made fibers, and from the government's Department of Scientific and Industrial Research.

### Non-Cellulosic Fiber Output Declines

(Continued from Page 1)

were exported. Compared with September, the October domestic shipments of acetate yarn and rayon were up four per cent and the exports 31 per cent.

Deliveries of high tenacity rayon yarn in October totaled 19,500,000 pounds, a 400,000-pound rise from the September level. Regular and intermediate

(Continued on Page 29)

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1/20's to 2/60's

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For High Quality BAN-LON® Products  
TOW-HUE TURBO ORLON® ACRYLIC

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French and American Spun Yarns  
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We claim so much for Bentley's UO/AE! Words can't describe; your eyes must tell you.

We didn't design this full-fashion fully automatic outerwear machine with the word unbelievable in mind. But that's the way it's turned out with the result we can't adequately describe its superlative features. What we're going to have to do then is simply say to you — see it!

See the fastest thing on a knitting room floor. See the exclusive styling features for producing the finest in outerwear fabrics and fibers.

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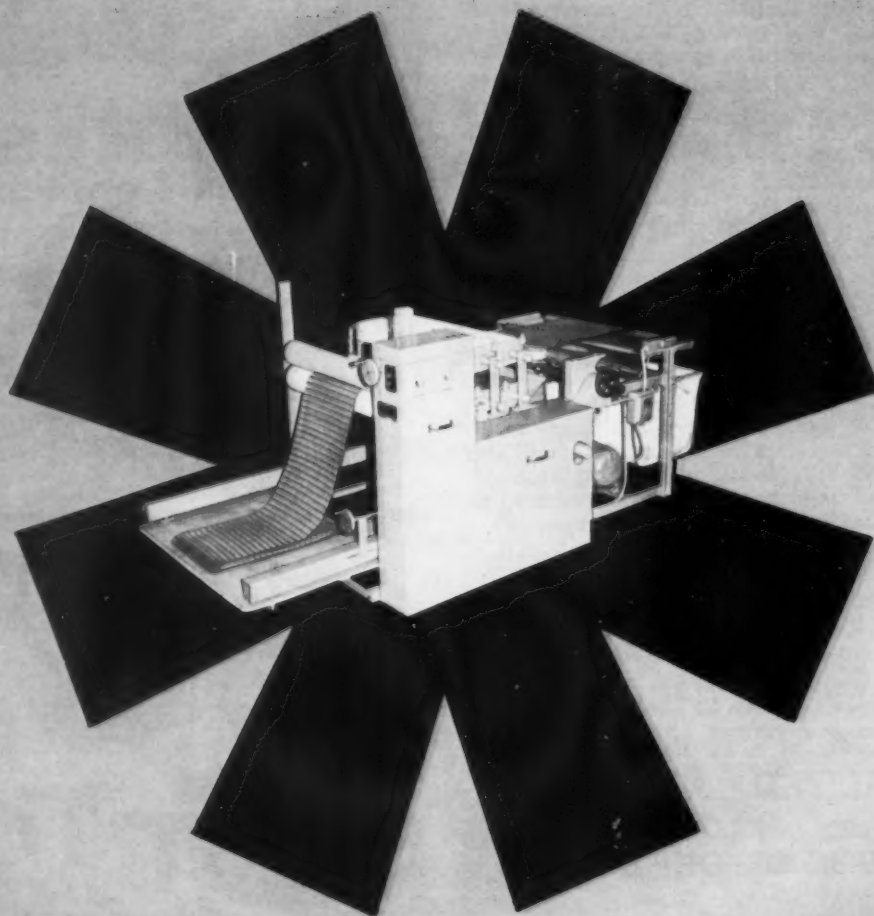
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tenacity rayon yarn shipments at 11,400,000 pounds were unchanged from September, while rayon staple and tow deliveries at 28,200,000 pounds were six per cent higher.

Aggregate shipments of acetate yarn and rayon in October at 76,000,000 pounds exceeded production by 4,000,000 pounds during the month. Producers' stocks were reduced by the same amount to the ending October level of 123,400,000 pounds.

Comparing the first 10 months shipments this year with the same period of 1959, aggregate shipments of acetate yarn at 193,500,000 pounds were higher by two per cent, high tenacity rayon yarn deliveries of 230,800,000 pounds were off 17 per cent, textile rayon yarn shipments at 119,800,000 pounds were 21 per cent lower and rayon staple deliveries at 260,300,000 pounds were off by 12 per cent.

### Wool

#### George A. Ott To Head Woolens And Worsteds

George A. Ott was elected president of Woolens and Worsteds of America, Inc. at the group's second annual meeting.

A former president of the Boston Wool Trade, Mr. Ott is still a member of the Board of that group. He is treasurer of Richard Ott and Sons of Boston.

Fenwick Sheppard, membership director of Woolens and Worsteds of America, was elected executive vice president. Three vice presidents were elected: G. Norman Winder, who

for the past two years has been the association's president; William I. Kent, president of Kent Manufacturing Company, and Ronald A. Mitchell, treasurer of Cyril Johnson Woolen Co., Inc.

### Narrowing Parts On Dubied BARB

(Continued from Page 7)

fabric, previously taken from the front bed, are returned to the front bed, each being then two tricks nearer to the center of the fabric than it was originally.

It is possible for the loop-transferring action to take place in both directions during the right-to-left stroke of the carriage so that the fashioning cycle can be completed in five traverse movements instead of six; but unless the carriage makes a drawback movement to collect the carriers who guides supply the knitting yarns, which in itself nullifies any advantage that a two-way transfer at the fifth traverse may give, special provision must be made so that whenever the fashioning cycle takes place, there must always be carriers with knitting yarns available at both extremities of the knitting width.

Rectangle VII in the diagram shows the loop distribution after all the necessary loop displacements to effect single needle narrowings have been made and after the front bed has been shogged back to its original position. The machine is ready to knit again in double system.

(Continued on Page 32)

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Also

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Perfect color matching.

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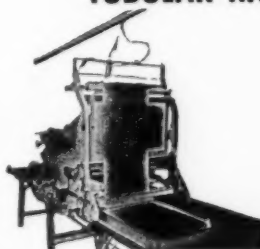
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CRA METAL SECTIONAL CUTTING TABLES

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## **DOUBLE JERSEY MACHINE**

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- Well over 100 yards per 8 hour shift.
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- Positively controlled feed wheel system.
- Controlled cylinder and dial clearing cams.
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- One of the most reasonably priced machines of its type on the market.

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THE MAGIC WORDS ARE  
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**Terrot Model RMR**

Will make double piqué fabric with pattern wheel designs — 8 to 16 ounce cloth — 14 through 18 cut. Production: 10 to 14 yards per hour (14 ounces per yard). Depending on type of stitch employed.

**Terrot Model IZ Special**

Will make double knit cloth, 8 to 16 ounces per yard. It's a **36 FEED** machine that will produce 17 to 19 yards per hour of 14 ounce fabric. The fabric can be used on many items from lightweight men's shirting to ladies winter dresses.

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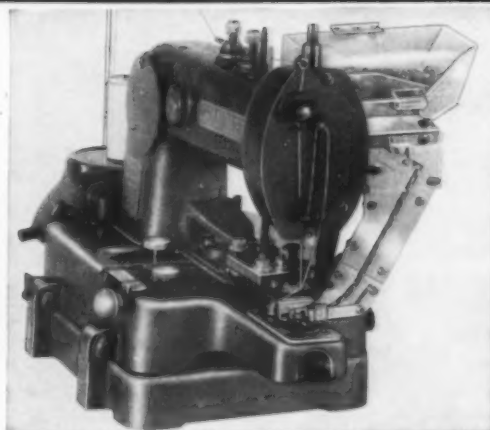
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**AUTOMATIC** • Experienced operators  
 Not Required  
 • 1500 RPM — FAST!

The **NEW SPEEDY CHANDLER**  
 With automatic button feeder, can double your production  
 ... complete a garment in seconds!

Call or Write now for complete information.

**CHANDLER SALES & SERVICE** ▶ WATkins 9-0646  
 245 Seventh Ave., New York, N. Y.

When knitting takes place in double system all the time, the fashioning frequency can be at intervals of any even number of courses, but if the frequency is at intervals of (4 N plus 2) courses, N being any whole number, alternate fashioning cycles are begun when the carriage is at opposite ends of the machine. Although the cycle can be completed in six traverse movements starting from either end, there are slight modifications in the loop transferring sequences in the two cases.

The sequence when the cycle starts with the carriage on the right is shown in the accompanying diagram, taking the rectangles in numerical order, as already explained when it starts on the left, loops are transferred from back to front, as in rectangle II, at the first traverse movement of the carriage and from front to back, as in rectangle I, at the second traverse movement. The front needle bed is then shogged two needle spaces to the right and the loops at the right extremity of the knitting width, previously transferred from back to front bed, are returned to the front bed at the third traverse movement. Before any further shogging takes place, the carriage makes its fourth traverse movement and loops at the left extremity of the knitting width, previously transferred from back to front bed, are returned to the back bed. At this stage, the carriage being at the left end of the machine, the front needle bed is shogged two needle spaces to the left, and then an idle traverse movement is made followed by another shogging movement of the front bed over two needle spaces to the left. During the

sixth traverse movement, which in this case takes place in the direction right to left, loops previously transferred from front to back bed are returned to the front bed at the left end of the knitting width and loops previously transferred from back to front bed are returned to the back bed at the right end of the knitting width. The necessary loop-transferring actions are thus completed and, after the front bed has been shogged across two needle spaces to the right, knitting can be resumed.

Fashioning by narrowing, in the manner herein described can be done on the BARB machine on a basis of ordinary 1 x 1 rib, half cardigan or royal rig, and also full cardigan or polka rib. Any number of fashioning cycles can be introduced as circumstances may require. To make garment pieces with 17 armhole narrowings the number of needle-selecting jacquard cards needed is 58 and 49 on front and back beds respectively. When a range of different sizes of garments of the same style is to be made some of the steel cards that are used for one size can also be used to help in the production of other sizes.

### Wool-Top Production Down In September

(Continued from Page 1)

Production of wool top in the United States during the month of September dropped to 9,409,700 pounds, the lowest monthly total of 1960. This compares with 11,635,700 pounds produced in August, which was the highest total of 1960. Total production during the first nine months of 1960 amounted to 90,527,500 pounds as compared with 96,238,700 pounds in the corresponding period of 1959.



**highest prices  
paid FOR YOUR sweater  
waste**

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EVERY FIBER  
EVERY GRADE  
NO MINIMUM

TEXTILE  
WASTE  
CORP.

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## CONTRACT WORK, CONTRACTORS WANTED

**CONTRACT WORK WANTED**  
4 cut Supreme. Quality work. Experienced on ladies', boys', men's slippers and coats.  
**BOX 481**

**CONTRACT WORK WANTED**  
on 4-cut Universal machines. Fine workmanship.  
**BOX 470J**

**RASCHEL CONTRACTOR AVAILABLE**  
on ladies' and girls' bulky sweaters and novelty cloth. Also on 4 cut flat machines.  
**S. NEUSTADT**  
152 East 91 Street, Brooklyn 36, N.Y.

**CONTRACTORS WANTED**  
with Raschel machines. Also novelty bulkies.  
**BOX 480A**

**FRENCH LOOPING COMPANY**  
Experienced in all types of looping.

**Call GL 6-2106**

## BULKY JOBBERS ATTENTION!

Bulky plant with 3½ and 4 cut flat machines producing 300-400 dozen per week is open for additional business. Knitting only or complete garment. Good workmanship. Reasonable.

**BOX 489**

## BUSINESS OPPORTUNITIES

### FOR SALE

Well established, up to date knitting mill. Located in metropolitan area. Consisting of coarse and fine gauge, and variety of flat and circular machines. Makers of men's and ladies' sweaters. Partner wishes to retire. Will sell mill outright or one partner's interest.

**BOX 470V**

## MILL EQUIPMENT, MACHINERY WANTED, FOR SALE

### FOR SALE KNIT GOODS FINISHING PLANT

consisting of the latest type sewing, cutting and pressing machines, capable of producing up to 1,000 dozen per week. An opportunity of a lifetime for man, woman or couple who knows how a knitted garment should be made and produced efficiently. Plant operating full capacity at present.

**BOX 488**

### KNITTING MILL

### FOR SALE

- **CONDITION** . . . in current operation, completely modern, fully equipped.
- **LOCATION** . . . within Metropolitan N. Y. area, easily reached from Manhattan.
- **PERSONNEL** . . . key people will probably remain; large labor pool area.
- **OPERATION** . . . immediate volume assured, long term lease, attractive financing.

Write: **Mr. Norton Sobo**

Ehrlich, Neuwirth & Sobo, Adv-tg  
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### WANTED TO BUY

1—4 gauge LH machine.

**BOX 470L**

### WANTED

Wildman PB (Rib) Revolving Cylinder Machines  
12 inches and up 8 feeds or more  
Wildman PB2 Strippers Any diameter  
Leighton Brass Ring Rackers, 13 inch and up  
Supreme 30 inch BRW machine  
Any cuts Any condition

We are not dealers

**BOX 450G**

## BEST BUYS

- 2—Philip Mach., 32 feed, 30", 14, 14½ cut
- 1—Scott & Williams interlock, 32 feed, 18 cut, 30"
- 1—Phila. Jacq. TA, 7 cut, 30", 4 color stripers
- 4—Phila. Jacq. TAI, 8¾, 13½, 15, 16½ cut, 30", 12 feed, 4 col. strip.
- 1—Phila. Jacq. TJ, 10 cut, 30" 12 feed, 4 color strip., automats.
- 1—Phila. Jacq. TJ, 8 cut, 28", 6 feed, 4 col. strip.
- 1—Phila. Jacq. TJ, 16", 7 cut, 4 col. str.
- 2—Phila. Jacq. LH, 6 & 8 cut, 30" & 28", 6 feed
- 1—O.G. 32", 36 feed, 8 cut, multi-feed jersey and 1 x 1 rib
- 2—Phila. Jacq. LA 30", 12 feed, 7 & 10 cut, 3 col. str.
- 2—Leighton transfers, 6½ & 10 cut, 32" & 34", 9 feed, 4 col. str.
- 8—Phila. Jacq. TA, 11" to 20", 4 feed, 6 to 12 cut
- 1—Phila. Jacq. MLW, 28", 11 cut, 24 feed, automats & wheels
- 4—Wildman PB2, 15", 17", 18", 22", 8 and 10 cut
- 2—Queens Model "B", 63", 9 & 12 cut, High & Low needles, jacks
- 2—Lamb double head border machines, 7 & 8 cut, with motors
- 1—Dubied Flat, 44", 7 cut, high & low needles
- 1—Dubied BAN, 56", 12 cut, Jacquards front & back
- 1—Supreme flat mach., 5 cut, 36"
- 5—Roly flat links, single & double jack
- 6—Cissel Tumbler Dryers, 30" x 36"

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- 2—14½ cut, 30", 32 feed Philip Interlock machines
- 1—15½ cut, 30", 32 feed Philip Interlock machine
- 1—19 cut, 30", 32 feed Philip Interlock machine
- 4—TA, body size 14", 15", 16", 17", 4 feed, 4 color yarn changers, individual drives, 10 cut machines
- 2—30", 8 cut TA 6 feed, 2 color yarn changer machines
- 2—30", 9 cut TA 6 feed, 2 color yarn changer machines
- 1—16 cut TAI, 30", 12 feed complete with stripers
- 3—13 cut TAI, 12 feed, 30" jog system machine
- 3—Universal Supramat SF, 10, 12, 14 cut
- 2—7 cut, 74" double jack Queens machines, selective racks for cables
- 2—7 cut, 88" double jack Queens machines, selective racks for cables
- 1—10 cut double head Lamb border machine
- 1—10 cut single head Lamb border machine
- 1—Jacquard GW, 28", 10 cut, 24 feed complete with wheels
- 1—8 cut, 28", 4 feed, 4 color Model TJ, like new

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TEXTILE MACHINERY • AUCTIONEERS • APPRAISERS  
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## MOVING TO LARGER QUARTERS

2 floors for rent or single floor with equipment for immediate manufacture. All subways and buses at door.

**1—Wildman 21" interlock machine with pattern wheels**

**1—Brinton 20" interlock machine**

**3—Brinton jersey machines**

**2—Kane 10 hp boilers with pumps, in perfect working condition**

**2—Pressing machines, 24" x 48", with top steam**

**1—40' cutting table**

**American Safety sewing plant, modern equipment**

**Assorted utility tables**

**Assorted pulleys and shafting**

**Office equipment**

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345 Hewes Street, Brooklyn 11, N. Y.

EVergreen 4-3000



**WANTED**

Scholl stainless steel double stick skein or similar type dyeing machines—200 or 400 pound capacity.

**BOX 460D**

**HELP WANTED****TOP DESIGNER WANTED****PART OR FULL TIME**

For quality knit dresses. Send full resume in first letter as to experience, qualifications and salary desired.

**BOX 484**

**WANTED**

Experienced mechanic on Supreme Wheel Machine. Modern plant. Steady work. Eastern Pennsylvania.

**BOX 470**

**YARN SALESMAN WANTED**

Organization representing leading spinners of Worsted, Synthetic and Cotton yarns has opening for young personable salesman, preferably with some experience selling Worsted yarns to knitting trade.

**BOX 483**

**KNITTED OUTERWEAR SALESMAN WANTED**

Thoroughly experienced selling the Wholesale and Chain Store Trade. Men's and Boys' Sweaters, Swim Trunks, Knitted Shirts, etc. Exceptional opportunity with nationally known, long established Mill Representative.

**BOX 482**

**KNITTER-MECHANIC WANTED**

For flat Links machines. Capable of making samples. Must be willing to relocate. Excellent salary. Send full details in first letter as to experience, qualifications and salary desired.

**BOX 485**

**KNITTER MECHANIC WANTED**

Experienced on TA, TAI, Philip and Stoll flat Jacquard & Dubied flats.

**BOX 474**

**WANTED**

Knitter mechanic on Dubied Cal Machines  
Phones: NOrth 4-2906 or Park Ridge 6-0993

Wanted, by one of the leading yarn jobbers, a young, alert

**TEXTILE SCHOOL GRADUATE**

with a good personality; with or without sales experience, to work himself into a position of

**SELLING**

to the knitwear trade covering primarily the New York area; occasional out-of-town trips.

**BOX 470C**

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**FOR SALE**  
**ELASTIC YARN FOR KNITTING**

• All Sizes and Colors



**EDFORD YARN CO.**  
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**YARN CLOSEOUTS WANTED**

Ban-Lon and Orlon Acrylic Small or Large Lots

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We Buy & Sell  
**WORSTED & SYNTHETIC  
YARNS**

We carry in stock  
all colors and  
all sizes for the  
knitting trade!

**YARNS WANTED, FOR SALE****YARNS FOR SALE - At Reasonable Prices**

3000 lbs.—3½ run, grey, 65% garnetted Orlon, 35% wool  
1100 lbs.—3½ run, aqua, 65% garnetted Orlon, 35% wool  
575 lbs.—3½ run royal, 65% garnetted Orlon, 35% wool  
525 lbs.—3½ run navy, 65% garnetted Orlon, 35% wool  
1000 lbs.—3½ run, blue heather, 86% lamb's wool, 10% alpaca, 4% nylon  
1650 lbs.—3200 yds. loop yarns, white peacock, ginger, black, cones  
1750 lbs.—9/1, 15/1, 1/32, 50/2, 60/2, black, Orlon and Acrilan acrylic cones  
400 lbs.—2/27, maize, 100% Darvan nylril, cones  
400 lbs.—1/32, li. heather, 55% Orlon, 45% Arnel, cones  
2200 lbs.—3 run, 3.5 run, 5 run, lamb's wool and Orlon acrylic, cones  
600 lbs.—1¼ dk. brown, 2% red, 100% Wool Shetland, cones  
850 lbs.—2/14, 75% Wool, 25% Nylon, black, cones  
700 lbs.—1½ run, loden green, gold, wool and nylon, cones  
1500 lbs.—1¼ and 2¼, camel, 75% wool, 22% mohair and 3% nylon

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191 Broadway, Brooklyn 11, N. Y.

EVERgreen 7-1525

**SURPLUS YARNS WANTED**

We always carry a large stock of yarns, dyed on cones for immediate use.

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Worsted · Zephyr  
Synthetics · Cotton**CENTURY  
YARN CO.****WE BUY AND SELL**

Worsted — Synthetics — Blends

**AT BEST PRICES!****BEDFORD YARN CO.**

MAIN 2-1340

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79 Clifton Place**POSITIONS WANTED****KNITTER MECHANIC**

Willing to relocate in North Carolina. Experienced on Philips Circular and Universal Collar machines.

**BOX 467****PRODUCTION MANAGER**

Capable of managing production from knitting through finishing on cut-and-sewn and full fashioned outerwear. Recently in own business. Wishes connections with a mill to manage inside production, or jobber to handle outside production. Willing to relocate. Available January 1, 1961.

**BOX 480H****PLANT MANAGER—INDUSTRIAL ENGINEER**

Administrator—extensive applied experience in production planning, scheduling, training, supervision, wage adm., purchasing and control of quality, budgets and production; record of improved operating methods and substantial cost reductions; directed Engineering, Development and coordinated with Sales. Will relocate. Resume.

**BOX 480C****PRODUCTION MAN AVAILABLE**

Experienced in ladies' and children's sweaters. Have contracts with contractors with bulky and fine gauge machines.

**BOX 480****AVAILABLE—PRODUCTION MANAGER  
AND QUALITY CONTROL**

Have complete knowledge of full fashioned and cut-and-sewn. Understand all operations from knitting to box. Interested only in a progressive company.

**BOX 480D****PRODUCTION MANAGER**

Available after 10 years association with knitwear firm, now liquidated, manufacturing decorated ladies' sweaters and coordinated sportswear. Capable of taking charge of skirt and coordinate operation.

**BOX 487****PRODUCTION COORDINATOR MANAGER**

with strong, practical mill experience, from yarn to box, production control etc. Good administrator, desires position with mill or jobber.

**BOX 470G****CLOSEOUTS****CLOSE-OUTS WANTED**

CASH PAID for surplus stocks of Sweaters and Bathing Suits.

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Cutter-Foreman wanted: to open sweater finishing plant. Must be capable of complete management. Orders on hand. Box 480F

Interested in buying in as partner in going finishing plant. Can supply work. Box 480G

Men's and boys' sweaters wanted on Philips and Jersey machines. Box 486

For sale or lease: Three 21 gge Goode Full Fash. Machines 10 sections 30" also one gge Good Sleeve Machine 20 sections 14". Box 480B

Seek additional work cable stitch on 7 cut Links and Links Flat Machines and 7 cut Circular machines. Box 480E

Knitter mechanic available. Experienced on Universal Flat machines. Box 480J

**KNIT FABRICS, CLOSEOUTS WANTED**

Cottons, Jerseys, Nylon Fleece, Lastex, Novelties, Metallics. Woven Piece Goods and Remnants. We pay cash.

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Orlon Yarn, size equivalent to 18 single cotton count. Natural and colors. Large quantity closeouts. Must be priced low. Advise all details.

**Box 741 Realservice, 110 W. 34th St., N. Y. 1, N. Y.****SALES REPRESENTATIVES WANTED, LINES WANTED****DISTRIBUTORS WANTED**

Mfr. of popular priced ladies' bulky knit sweaters offering to reputable, established stock houses protected distributorships — expanding our operation — most territories open — lucrative opportunity — forward resume, state territories covered, etc. All replies confidential.

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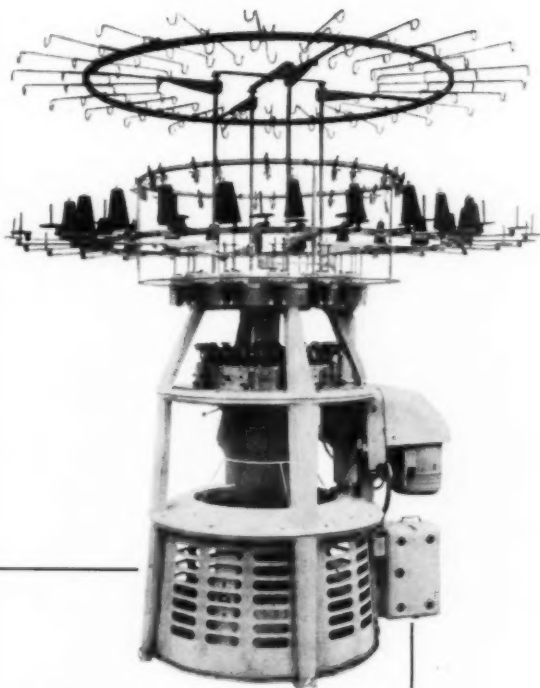
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Name.....

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## Circular Jacquard Rib Machine for the Finest knitted fabrics



Built by:

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Circular machine builders

for 115 years

### *Pattern Possibilities:*

- Basic rib textures
- Plain and double pique
- Cardigan
- Blister
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- Eightlock
- Ripple
- 2-3-4 Color Jacquard
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